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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/733,273	12/12/2003	Mitsuru Dohiwa	246624US26	8250
22850 7590 06/17/2008 OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, P.C. 1940 DUKE STREET			EXAMINER	
			RUDY, ANDREW J	
ALEXANDRIA, VA 22314			ART UNIT	PAPER NUMBER
			3687	
			NOTIFICATION DATE	DELIVERY MODE
			06/17/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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	Application No.	Applicant(s)			
Office Action Comment	10/733,273	DOHIWA ET AL.			
Office Action Summary	Examiner	Art Unit			
	Andrew Joseph Rudy	3687			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on					
	<u>_</u>				
<i>i</i> —	-				
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
closed in accordance with the practice under Ex parte Quayre, 1000 O.D. 11, 400 O.G. 210.					
Disposition of Claims					
 4) ☐ Claim(s) 1-32 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-32 is/are rejected. 7) ☐ Claim(s) is/are objected to. 					
8) Claim(s) are subject to restriction and/or	election requirement.				
Application Papers					
 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 					
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5/26/04. 4) Interview Summary (PTO-413) Paper No(s)/Mail Date 5) Notice of Informal Patent Application 6) Other:					

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DETAILED ACTION

1. Claims 1-32 are pending.

2. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claims 1-32 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1, line 8, "ID" is not clear as to its meaning.

Claim 12, line 3, "IC" is not clear as to its meaning.

Claim 31, line 6, "ID" is not clear as to its meaning.

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

5. Claims 1-32, as understood, are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent Application Publication No. 2001/0032109 to Gonyea et al. in view of U.S. Patent No. 6,608,666 to Deguchi et al., U.S. Patent No. 4,404,641 to Bazarnik and U.S. Patent No. 6,618,692 to Takahashi et al., and further in view of Suyehira, US 6,947,161.

Gonyea discloses, e.g. Figs. 1-7 and related text, a plurality of computers, e.g. 10, 15, a network, e.g. 13, a parts system, operating time components, e.g. 44, step 72, and corresponding method, for maintaining at least one part constituting a portion of a processing system, an identification process, e.g. 156, the part system comprising at least one processing system (0013, lines 1-9), a factory-side system (0013, lines 1-9) comprising a preset means for storing at least two stage limit value levels corresponding to at least one of a predetermined allowable operation limit and a predetermined number of operations of the part (0020, lines 1-5 and 0050, lines 1-

2), a measuring means for measuring at least one of actual operation time and a number of actual operations of the part (0021, lines 10-13), and a maintenance judging means for judging operation conditions associated with the part by comparing at least one of the actual operation time and the number of actual operations of the part with at least one of the predetermined allowable operation time and the predetermined number of operations of the part to determine whether an order processing request for the part is desired (0005, lines 14-21 and 0055, lines 1-13) and a factory-side sending/receiving means (0015, lines 5-7 and 0017, lines 1-7).

Gonyea also discloses that the maintenance judging means compares at least one of the actual operation time and the number of actual operations of the part to a first stage limit value level and a second stage limit value level, and if the at least one of the actual operation time and the number of actual operations of the part is at least equal to the first stage limit value level, the maintenance judging means generates a part ordering processing request (0050, lines 15-21) and if the at least one of the actual operation time and the number of actual operations of the part is at least equal to the second stage limit value level, the maintenance judging means carries out a notice processing indicating the need for repairing said part (0050, lines 2-15).

Gonyea also discloses that the factory-side system estimates the time when the level reaches the second stage limit value level and if said factory-side system judges that the part can be made available by that time and a periodic maintenance

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of said semiconductor processing system is scheduled by that time, maintenance schedule information for inputting the exchange of the part into a periodic maintenance schedule is input into the next periodic maintenance schedule and updates said periodic maintenance schedule (0027, lines 29-37).

Gonyea discloses that the preset means of said factory-side system stores normal operation time and its allowable limit value for comparison, in order to perform estimation, (0021, lines 13-16) or cumulative time-passage change and its allowable limit value for comparison (0027, lines 9-11).

As noted above, the invention of Gonyea teaches many of the features of the claimed invention and while the invention of Gonyea does teach a wide variety of processing systems as well as communication to and from a vendor with the vendor carrying out part order processing based on a request from a factory-side system, Gonyea does not specifically indicate that the system be a parts management system with a plasma processing apparatus.

Deguchi teaches a part system for maintaining at least one part constituting a portion of a semiconductor processing system (column 6, lines 9-17), the part maintenance system comprising: at least one semiconductor processing system (column 6, lines 9-17), a factory-side system (column 6, lines 40-42) comprising a factory-side server connected to the at least one semiconductor processing system via a first private communication network (i.e. LAN) (column 6, lines 42-51), the factory-side server comprising a factory-side sending/receiving means connected to the factory-side server via the first private communication network (column 6, lines

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42-51); and a vendor-side system comprising a vendor-side sending/receiving means connected to the factory-side sending/receiving means via a public communication network (i.e. Internet) (column 6, lines 19-21, 36-39, and 51-54), and a vendor-side server connected to the vendor-side sending/receiving means via a second private communication network (i.e. LAN) (column 6, lines 30-35), wherein the factory-side sending/receiving means comprises a security measure configured to inhibit unauthorized transfer of data between the factory-side server and the public communication network (column 6, lines 37-39), wherein the vendor-side sending/receiving means comprises a security measure configured to inhibit unauthorized transfer of data between the vendor-side server and the public communication network (column 6, lines 56-58).

It would have been obvious to one having ordinary skill in the art to modify the invention of Gonyea to specifically indicate that the system be a semiconductor processing system with a private communication network and that the vendor be part of a vendor-side system comprising a private communication network and a vendor-side sending/receiving means which sends and receives information to and from said factory-side system through a network, as taught by Deguchi, because the combination would have allowed greater utility in the invention of Gonyea by providing application to a wider variety of environments and, as suggested by Deguchi, provided a corresponding means for communicating with the vendor of Gonyea with improved accessibility by allowing access to the vendor remotely

(column 7, lines 10-22) while allowing remote monitoring to provide rapid problem correction (column 7, lines 46-52).

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It is noted that it has been held that a recitation of the intended use of the claimed invention must result in a structural difference between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. If the prior art structure is capable of performing the intended use, then it meets the claim (See In re Casey, 152 USPQ 235 (CCPA 1967) and In re Otto, 136 USPQ 458, 459 (CCPA 1963)). In the instant case, the structure of Gonyea is capable of performing the monitoring of any of a plurality of processing systems including a plasma processing system, and therefore meets the claimed limitation.

Also, since Gonyea teaches that the factory-side performs the maintenance scheduling operation rather than the vendor-side and Deguchi teaches remote maintenance by the vendor-side, the combination would have performed the maintenance scheduling operation of Gonyea at the vendor-side.

As noted above, the invention of Gonyea and Dequchi teaches many of the features of the claimed invention, and while the invention of Gonyea and Deguchi does teach a factory-side system that determines a cumulative operation time of a part for comparison with a two stage limit, the combination does not specifically indicate that the cumulative operation time is determined by a counter for the part. Also, while the invention of Gonyea and Deguchi does teach providing security measures at both the factory-side and vendor-side for inhibiting external access (i.e. unauthorized data transfer), the combination does not specify that the security measure is a firewall.

Bazarnik teaches a maintenance monitor that automatically advises that maintenance of a device should be undertaken (column 1, lines 5-8) including a counter corresponding to a specific part (column 1, lines 66-68) wherein the counter accumulates operation time for comparison to a two stage limit (column 2, lines 3-9).

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Takahashi teaches a remote diagnostic system and method for semiconductor manufacturing equipment comprising a plurality of servers coupled to the Internet via respective firewalls (column 6, lines 24-42).

It would have been obvious to one having ordinary skill in the art to modify the invention of Gonyea and Deguchi to specifically indicate that the cumulative operation time is determined by a counter for the part, as taught by Bazarnik, because Bazarnik suggests a well-known means for accumulating time that would be required to determine the accumulated time in the invention of Gonyea and Deguchi as well as reduce the occurrence of machine damage by disabling the machine when the maintenance must be performed (column 1, lines 54-61 and column 2, lines 3-9). Further, since Gonyea and Deguchi teaches processing cumulative time with a processing server (Gonyea; 0005, lines 14-21 and 0055, lines 1-13) and connecting the processing server to the manufacturing equipment via the first private communication network (Deguchi; column 6, lines 45-51 and Figure 5) and Bazarnik teaches determining the cumulative time with a counter, the

combination would have communicated the value counted by the counter to the processing server via the first private communication network.

It would have been obvious to one having ordinary skill in the art to modify the invention of Gonyea and Deguchi to specify that the security measure is a firewall, as taught by Takahashi, because, as is recognized by one having ordinary skill in the art, Takahashi suggests a corresponding well-known security measure for inhibiting access that would have improved the applicability of Gonyea and Deguchi by performing the security process using common methods (column 6, lines 24-42).

Suyehira teaches systems and methods for automatic status tracking of automatically ordered replacement components for printing devices, or other devices relating to other technologies (column 3, lines 41-51), comprising communication between a client-side and vendor-side over a network (column 4, lines 37-56) for ordering a replacement part (column 5, lines 8-17) wherein an estimation is made of the time period required to reach a time limit value (column 7, lines 8-15). Suyehira further teaches that if the system judges that the replacement part cannot be made available by said time period required to reach the time limit, the system judges that a different maintenance event can be performed (column 3, lines 4-10 and column 7, lines 50-56). To have the system to be of a common knowledge plasma processing apparatus that tracks the identification (ID) of parts in separate databases would have been obvious to one of ordinary skill in the art as an obvious substitution/tracking of parts at various stages of the parts life cycle has been common knowledge in the inventory tracking art.

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Further, it would have been obvious to one having ordinary skill in the art to modify the invention of Gonyea, Deguchi, Bazarnik, and Takahashi to use an estimation of the time period required to reach the second stage limit and provide a provision for when the replacement part cannot be available by the time period, as taught by Suyehira, because the combination of Gonyea, Deguchi, Bazarnik, and Takahashi does set a replacement limit requiring a maintenance event that occurs prior to the actual expiration of the part being maintained in order to avoid such expiration (Gonyea; 0027, lines 27-37) and the combination, as suggested by Suyehira, would have provided a means for determining the time until actual part expiration for use in determining whether or not the replacement part will arrive before the expiration. Therefore, the combination would provide the user with sufficient time to take corresponding action, such as maintenance, to continue to prevent part expiration (column 3, lines 4-10 and column 7, lines 50-56).

- 6. Further pertinent references of interest are noted on the attached PTO-892.
- 7. Applicant's Information Disclosure Statement (IDS) has been reviewed. Note the attached IDS.
- 8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrew Joseph Rudy whose telephone number is 571-272-6789. The examiner can normally be reached on Monday thru Friday.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew S. Gart can be reached on 571-272-3955. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Andrew Joseph Rudy/ Primary Examiner, Art Unit 3687